In the Claims:

The claims are not amended in this response.

1. (original) A single-photon generation device comprising a laser-light source, a wave-guide-type quasi-phase-matching $LiNbO_3$ that converts one photon from said laser-light source into two photons with a common wavelength, a beam splitter that separates the two photons, a single-photon detector that detects one of the separated photons, and an optical switch that puts the other of the separated photons in and is controlled with the detection signal of said single-photon detector.

2. (original) A single-photon generation device comprising a laser-light source, a non-degenerate wave-guide-type quasi-phase-matching $LiNbO_3$ that converts one photon from said laser-light source into two photons with different wavelengths, a dichroic mirror that separates the two photons with the different wavelengths, a single-photon detector that detects one of the separated photons, and an optical switch that puts the other of the separated photons in and is controlled with the detection signal of said single-photon detector.

3. (original) A single-photon generation device comprising a laser-light source, a bulk-type quasi-phase-matching $LiNbO_3$ that converts one photon from said laser-light source into two photons and put them out to different directions, a single-photon

detector that detects one of the separated photons, and an optical switch that puts the other of the separated photons in and is controlled with the detection signal of said single-photon detector.